### PATENT COOPERATION TREATY

# **PCT**

#### INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER		see Form PCT/ISA/220
RL1-346WO	ACTION		as, where applicable, item 5 below.
International application No.	International filing date (day/mont	h/year)	(Earliest) Priority Date (day/month/year)
PCT/IB2004/000843	22/03/2004		21/03/2003
Applicant			·
RANBAXY LABORATORIES LIMIT	ren		
RANBAXI LABORATORIES EITHI			
This International Search Report has been according to Article 18. A copy is being tra	n prepared by this International Sea ansmitted to the International Burea	rching Aut u.	nority and is transmitted to the applicant
This International Search Report consists	of a total of 6sh	eets.	
	a copy of each prior art document	ited in this	report.
Basis of the report     a. With regard to the language, the language in which it was filed, unline.	international search was carried ou ess otherwise indicated under this	t on the bartem.	sis of the international application in the
The international this Authority (Ru		of a transl	ation of the international application furnished to
b. With regard to any nucleo	otide and/or amino acid sequenc	e disclosed	in the international application, see Box No. I.
2. Certain claims were fou	nd unsearchable (See Box II).		
3. Unity of invention is lac	king (see Box III).		
4. With regard to the title,			
_	ibmitted by the applicant.		
x the text has been establis	shed by this Authority to read as foll	ows:	
PROCESS FOR THE PREPAR	RATION OF DONEPEZIL A	ND DERI	VATIVES THEREOF
			· <del>-</del>
5. With regard to the abstract,			
	ubmitted by the applicant.		
the text has been establis may, within one month from	shed, according to Rule 38.2(b), by om the date of mailing of this intern	this Author ational sea	rity as it appears in Box No. IV. The applicant rch report, submit comments to this Authority.
6. With regards to the drawings,			•
a. the figure of the drawings to be	published with the abstract is Figure	No	<del></del>
as suggested by			
	is Authority, because the applicant		
· — —	ils Authority, because this figure be	ter charact	enzes me invention.
b. none of the figures is to be	be published with the abstract.		

#### INTERNATIONAL SEARCH REPORT

International Application No PCT/IB2004/000843

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 A61K31/4465 C07D211/32 C07D213/50

According to International Patent Classification (IPC) or to both national classification and IPC

#### B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  $IPC\ 7\ C07D$ 

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, BEILSTEIN Data, CHEM ABS Data

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Р,Х	US 6 649 765 B1 (PANDURANG SUTAR RAJIV ET AL) 18 November 2003 (2003-11-18) column 3, lines 10-14	1-16,51, 52
X	US 6 413 986 B1 (EFFLAND RICHARD C ET AL) 2 July 2002 (2002-07-02) cited in the application see reaction scheme of columns 9 and 10	1-16,51, 52
X	US 6 252 081 B1 (IIMURA YOICHI) 26 June 2001 (2001-06-26) cited in the application see column 3, last step	1-16,51, 52
X	WO 97/22584 A (PFIZER; DEVRIES KEITH M (US)) 26 June 1997 (1997-06-26) cited in the application page 5	1-16,51, 52

X Further documents are listed in the continuation of box C.	χ Patent family members are listed in annex.
Special categories of cited documents:      A* document defining the general state of the art which is not considered to be of particular relevance      E* earlier document but published on or after the international filing date      L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)      O* document referring to an oral disclosure, use, exhibition or other means      P* document published prior to the international filing date but later than the priority date claimed	<ul> <li>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</li> <li>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</li> <li>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</li> <li>"&amp;" document member of the same patent family</li> </ul>
Date of the actual completion of the international search	Date of mailing of the international search report
22 July 2004	10/08/2004
Name and mailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan 2  NL - 2280 HV Rijswijk  Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  Fax: (+31-70) 340-3016	Authorized officer  Bérillon, L

5

### INTERNATIONAL SEARCH REPORT

International Application No
PCT/IB2004/000843

Category °	citation) DOCUMENTS CONSIDERED TO BE RELEVANT  Citation of document, with indication, where appropriate, of the relevant passages	. Relevant to claim No.
alegory *	Onation of document, with indication, where appropriate, or the following passages	
X	EP 1 086 706 A (EISAI CO LTD) 28 March 2001 (2001-03-28) claim 2	53
(	CLARK J. ET AL.: BIOORGANIC AND MEDICINAL CHEMISTRY LETTERS, 2002, pages 2565-2568, XP002289468 see scheme 1, step c	17-31

5

#### FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-16, 51-53

Preparation of intermediate II Preparation of donepezil Composition containing donepezil

2. claims: 17-31

Preparation of intermediate III

3. claims: claims 32-50

Preparation of derivatives I

International application No. PCT/IB2004/000843

# INTERNATIONAL SEARCH REPORT

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sneet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
Claims Nos.:     because they relate to subject matter not required to be searched by this Authority, namely:
Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
see additional sheet
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. X As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest  The additional search fees were accompanied by the applicant's protest.  No protest accompanied the payment of additional search fees.

# INTERNATIONAL SEARCH REPORT

information on patent family members

international Application No PCT/IB2004/000843

				1	
Patent document cited in search report		Publication date		Patent family member(s)	Publication date
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